

SINCLAIR OIL & GAS COMPANY Become Successor  
Designated Operator Effective November 26,  
1963. Formerly Western Nat. Gas Company.

Noted in this NID File ☒  
Location map pinned ☒  
Approval or Disapproval Letter ☒  
Date Completed, P. & A, or operations suspended ☒  
Pin changed on location map ☐  
Affidavit and Record of A & P ☐  
Water Shut-Off Test ☐  
Gas-Oil Ratio Test ☐  
Well Log Filed ☒

7-17-56

# FILE NOTATIONS

Noted in NID File ☒  
Sheet ☒  
Location Map Pinned ☒  
Copy Indexed ☒  
IWD State or Fee Land ☐

Checked by Chief ☐  
Copy NID to T. H. Office ☐  
Approval Letter ☒  
Disapproval Letter ☐

## LOGS FILED

Date Well Completed 7-17-56  
CW ☒ WW ☐ TA ☐  
GW ☐ OS ☐ PA ☐

Location Inspected ☐  
Bond released ☐  
State of Fee Land ☐

D. H. Log 7-30-56

E. H. Logs (No.) 6

E ☒ I ☒ E-I ☐ GR ☐ GR-N ☒ Mic ☒  
Lat ☒ Mi-L ☒ Sonic ☐ Others Radiactivity

# Western Natural Gas Company

1006 MAIN STREET

Houston 2, Texas

W. K. DAVIS  
VICE-PRESIDENT  
IN CHARGE OF  
OPERATIONS

April 4, 1956

Re: Location of the Western Natural  
Gas Company #7 English  
Boundary Butte Field  
San Juan County, Utah

Utah Oil and Gas Conservation Commission  
Room 105, Capitol Building  
Salt Lake City, Utah

Attention: Mr. Herbert F. Smart

Gentlemen:

We respectfully request your approval of the following unorthodox location for the Western Natural Gas Company #7 English in order to obtain the most favorable location possible from a subsurface standpoint and fitted to the rugged terrain of the area under development.

Our recent well, the English #6, has been temporarily abandoned short of its objective due to its excessively high structural position and we are endeavoring to move down dip in order to properly test the oil possibilities on flanks of this large structure. For this reason, we are anxious to be as far north and west in this section as possible, and, therefore, request the following location:

330' From the North Line and 1650' From the West Line  
of Section 16, Township 43S, Range 22E, San Juan  
County, Utah; Being in the Northeast of the Northwest  
of said Section.

Attached is a sketch showing the general terrain of the area of the English #7 in relation to the English #6.

Yours truly,

*Paul H. Nelson*  
Paul H. Nelson  
Chief Geologist

PHN:mn

cc :W.K. Davis  
Paul C. Wright  
G.P. Tyler  
R.H. McKoy

*OK. for granting  
exception for  
geological reason  
ie: down structure as  
for as possible - on their  
property for a second test.  
C. H. Suptman  
4-10-56.*

(SUBMIT IN TRIPLICATE)

Indian Agency \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Window Rock, Arizona

Allottee \_\_\_\_\_

Lease No. I-149-IND-7180

X		
	16	

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	X	SUBSEQUENT REPORT OF WATER SHUT-OFF _____
NOTICE OF INTENTION TO CHANGE PLANS _____		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING _____
NOTICE OF INTENTION TO TEST WATER SHUT-OFF _____		SUBSEQUENT REPORT OF ALTERING CASING _____
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL _____		SUBSEQUENT REPORT OF REDRILLING OR REPAIR _____
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____		SUBSEQUENT REPORT OF ABANDONMENT _____
NOTICE OF INTENTION TO PULL OR ALTER CASING _____		SUPPLEMENTARY WELL HISTORY _____
NOTICE OF INTENTION TO ABANDON WELL _____		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 4, 1956

Well No. 7 is located 330 ft. from N line and 1650 ft. from EX line of sec. 16

NE/4 NW/4 Sec. 16 43-S 22-E SLEB  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Boundary Butte San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the Ground surface above sea level is 4926 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Plan to drill and test top of Mississippian formation with rotary tools.

Casing Program:

8 5/8" OD 24.7# Gr B ST&C Casing @ 300' w/150 sax cement - circulated.  
5 1/2" OD 14# J-55 ST&C @ 5500 w/350 sax cement, 4% gel.

Est. Tops:

Ocooninc - 1300  
Paradox - 4250  
Mississippian - 5275

See copy of location plat attached.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company WESTERN NATURAL GAS COMPANY

Address 823 Midland Tower  
Midland, Texas

By Ray C. Jeter

Title Assistant Division Superintendent

COMPANY WESTERN NATURAL GAS COMPANY, INC. AL.

Well Name & No. ENGLISH-TRIBAL NO. 7 Lease No. I-149-IND. 7180

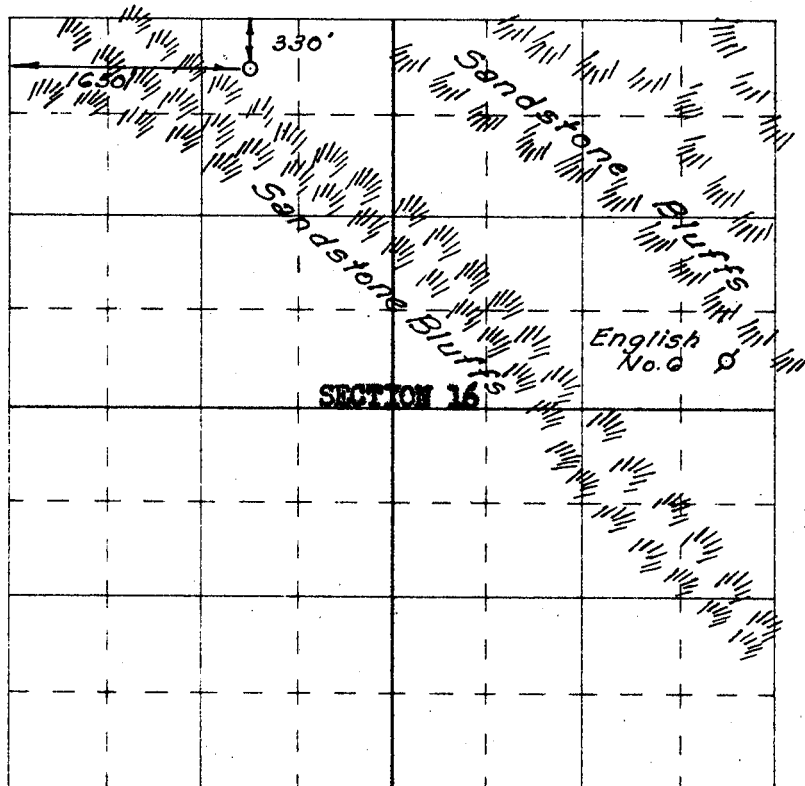
Location 330 FEET FROM THE NORTH LINE, 1650 FEET FROM THE WEST LINE

Being in NE 1/4 OF THE NW 1/4

Sec. 16, T43 S., R 22 E SLEEM

SAN JUAN COUNTY, UTAH

Ground Elevation 4926.22



Scale -- 4 inches equals 1 mile

Surveyed APRIL 3, 19 56

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

C. O. Halkei  
Registered Professional  
Engineer and Land Surveyor.

Farmington, New Mexico

DOMESTIC SERVICE	
Check the class of service desired; otherwise this message will be sent as a full rate telegram	
FULL RATE TELEGRAM	SERIAL
DAY LETTER	NIGHT LETTER

# WESTERN UNION

1206

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise this message will be sent at the full rate	
FULL RATE	LETTER TELEGRAM
VICTORY LETTER	SHIP RADIOGRAM

W. P. MARSHALL, PRESIDENT

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

3:40 PM

4-4341

April 10, 1956

COLLECT WIRE

Western Natural Gas Company  
823 Midland Tower  
Midland, Texas

Approval granted to drill English Seven stop Letter follows to Houston

Utah Oil and Gas Conservation Commission

CBF:AT

April 10, 1956

AIR-MAIL

Western Natural Gas Company  
1006 Main Street  
Houston 2, Texas

ATTENTION: Paul H. Nelson, Chief Geologist

Gentlemen:

This is to acknowledge receipt of your letter of April 4, 1956.

Please be advised that your notice of intention to drill Well No. English-7, which is to be located 330 feet from the north line and 1650 feet from the west line of Section 16, Township 43 South, Range 22 East, S12E41, San Juan County, is approved by this office as provided for under Rule C-3 (a), General Rules and Regulations and Rules of Practice and Procedure, Utah Oil and Gas Conservation Commission.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

HERBERT F. SMART  
COMMISSIONER

CHFire

cc: B. Russell, Geological Survey, Federal Building, Salt Lake City,  
Utah  
Phil McGrath, USGS, Farmington, New Mexico

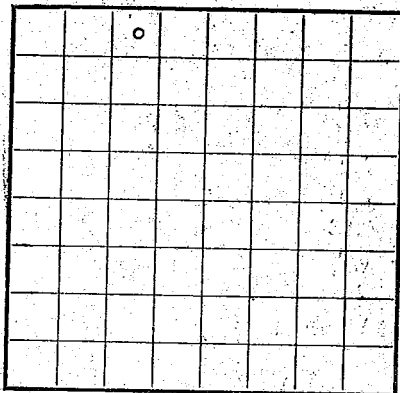
2

Navajo Indian Agency

U. S. LAND OFFICE Window Rock

SERIAL NUMBER I-149-Ind-7180

LEASE OR PERMIT TO PROSPECT English



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company Western Natural Gas Company Address 823 Midland Tower, Midland, Texas  
Lessor or Tract P. B. English Field Boundary Butte State Utah  
Well No. 7 Sec. 16 T. 43S R. 22E Meridian SLBM County San Juan  
Location 330 ft. N. of N. Line and 1650 ft. E. of W. Line of Section Elevation 4926 G.L.  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date July 27, 1956Title Division Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling 4-11-56, 19\_\_\_\_ Finished drilling 5-22-56, 19\_\_\_\_

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1305 to 1686 No. 4, from 4800 to 4870  
No. 2, from 4330 to 4420 No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from 4600 to 4670 No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8	24.7	8	Sm's LP	4171	Tex. Pattern				Surface Production
5 1/2	15.5	8	J-55 Sm's	4916	Float		See below		

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	402	225	Pump & plug		
5 1/2	4946	250	Pump & plug		

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

# MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	402	225	Pump & plug		
5 1/2	4946	250	Pump & plug		

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from 0 feet to 5409 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

July 27, 1956 Put to producing July 17, 1956

The production for the first 24 hours was 52 barrels of fluid of which 31% was oil; 0% emulsion; 69% water; and 0% sediment. Gravity, °Bé. 36

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

A. R. Samuel, Driller L. B. Wells, Driller  
 P. B. Cockrell, Driller

## FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	400	400	Sandstone, lt tan, fn to med grain.
400	970	570	Shale, brown, reddish brown, v sandy, red bedded, w/strks of arg limestone.
970	1090		Sandstone, tan, fn to med gr arg.
1090	1305		Shale, brown, grey-green, red bedded.
1305	1686		Sandstone, grey, fn to med gr.
1686	2525		Shale, reddish-brown, red bedded, w/strks of tan arg limestone.
2525	3417	Interbedded layers of red bedded sandstone, shale & limestone.	
3417	5150		Limestone, grey, marine interbedded w/thin strks of grey & black shale.
5150	5300		Shale, grey to black.
5300	5409		Limestone, wh to lt grey, dense, some shalky
Tops:	Shinarump	970	
	Coconino	1305	
	Organ Rock	1686	
	Cedar Mesa	2525	
	Hermosa	3417	
	Paradox	4170	
	Milac	5150	
	Leadville	5300	
	T.D.	5409	

(OVER)

16-43094-8

JUL 30 1956



# HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 5:00 AM April 11, 1956 and drilled 11" hole to 420 and set 8 5/8" casing. Drilled 7 7/8" hole to 4300. Cored 4300-4367. Drill stem tested from 4300-4367. Cored 4368-4389. Drill stem tested 4303-4389. Drilled 7 7/8" hole to 4417. Cored 4417-28. Drill stem tested 4390-4428. Drilled to 4890 and drill stem tested 4804-4890. Drilled to 5106 and drill stem tested 4895-5106. Drilled to TD 5409 and ran 5 1/2" casing to 4940, top of cement 3460'. Set Baker C. I. Bridge Plug at 4758 with two sacks cement, on top of perforations 4804-4870. Set Baker C. I. Bridge Plug at 4470, with two sacks cement, on top of perforations 4597-4699. Perforated 4329-4419 and acidized with 1000 gals 15% acid, petrofraced with 10,000 gals lease crude and 10,000# sand. Swabbed and pumped until completion on 7-17-56.

(Please use 16-43094-2)

ONE OF TWO PAGES OF FORM

The information on this form is to be used for the purpose of recording the history of the well and for the purpose of recording the results of the work done on the well. The information on this form is to be used for the purpose of recording the history of the well and for the purpose of recording the results of the work done on the well. The information on this form is to be used for the purpose of recording the history of the well and for the purpose of recording the results of the work done on the well.


DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
DIVISION OF OIL AND GAS

Form 16-43094-2  
U. S. GOVERNMENT PRINTING OFFICE  
16-43094-2  
16-43094-2  
16-43094-2

# FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
<b>Perforations:</b> 4804-4870, 4597-4699, 4329-4355, 4361-4389, 4409-4419 with 4 jet shots/ft.			
<b>Drill Stem Test Records:</b>			
	DST #1	4300-4367	Recovered 110' gas cut drilling mud, 90' gas cut drilling sul odor, 180' heavy oil & gas cut drlg mud. Misrun, tool plugged.
	DST #2	4303-4391	Recovered 70' very sli oil cut drlg mud, 40' sli oil cut drlg mud sul odor, 210' oil cut drlg mud.
	DST #3	4390-4428	Recovered 30' very sli oil cut drlg mud sul odor, 180' 10% oil cut drlg mud, no odor.
	DST #4	4804-4890	Recovered 5' heavy oil cut drlg mud, 90' 15% oil cut drlg mud, 180' 5% oil cut mud sli salt taste, 180' salt water cut drlg mud oil stain & odor, 215' XW cut drlg mud sli oil stain.
	DST #5	4895-5106	Recovered 245' drlg mud.
<b>Core Description:</b>			
	4300-4388		Limestone, grey hard dense fractured, inter-bedded with thin laminae of black shale & limey shale, fractures bleeding oil. Some small evenly spaced vugs with oil stain and odor.
	4417-28		Limestone, hard grey dense fractured w/scattered spotted fluor and sli oil odor.
	4818-19		Cherty, bluish-grey fractured. No show

# Western Natural Gas Company

1006 MAIN STREET

Houston 2, Texas

July 27, 1956

ADDRESS CORRESPONDENCE TO  
823 MIDLAND TOWER BUILDING  
MIDLAND, TEXAS

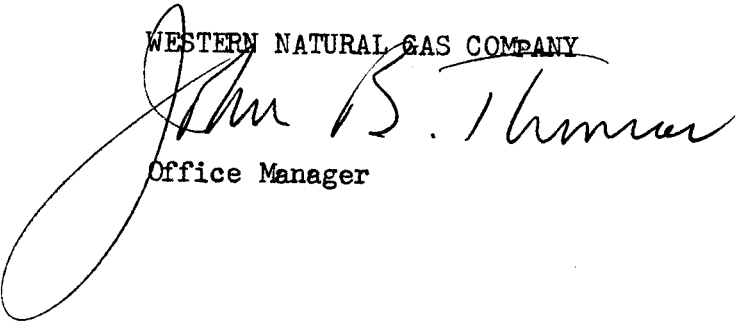
Utah Oil & Gas Conservation Commission  
Room 105, Capitol Building  
Salt Lake City, Utah

Gentlemen:

In connection with the completion of the  
Western Natural Gas Company et al, English #7,  
Boundary Butte Field, San Juan County, Utah,  
enclosed please find copy of U.S.G.S. Form 9-330  
and one copy of all electric and radioactivity  
logs run on the well.

Very truly yours,

WESTERN NATURAL GAS COMPANY

  
Office Manager

JBT:jh

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: **Window Rock, Arizona**  
SERIAL NO.: **1-149-Ind-7188**

and hereby designates

NAME: **Sinclair Oil & Gas Company**  
ADDRESS: **601 Denver Club Bldg., Denver, Colo.**

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

*NW NE 1/4*  
**English 1/4**

**47**

**Located: Sec 16, T-43-S, R-22-E, S1/4, San Juan County, Utah**

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

**Formerly: Western Natural Gas Company Lessee**

**Effective November 26, 1963.**

*Paul Woodward*  
\_\_\_\_\_  
(Signature of lessee)

**Western Natural Gas Company**  
**823 Midland Tower**  
**Midland, Texas**  
\_\_\_\_\_  
(Address)

**November 26, 1963**

(Date)



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Caller Service 4104  
Farmington, New Mexico 87499

IN REPLY REFER TO:  
3100 (016)  
I-149-IND-7180

MAR 26 1985

## CERTIFIED—RETURN RECEIPT REQUESTED

Arco Oil and Gas Company  
Production - Rocky Mountain District  
Attn: Keith Angel  
P. O. Box 2197  
Farmington, NM 87499

RECEIVED  
J. E. TAYLOR  
FARMINGTON  
DATE MAR 27 1985

Dear Mr. Angel:

Our records indicate that you are the operator of the following well on lease No. I-149-IND-7180:

<u>Well No.</u>	<u>Location</u>	<u>Date of Last Production</u>
- No. 26 English	NESW, sec. 16, T. 43 S., R. 22 E.	January 1982
No. 6 English	SENE, sec. 16, T. 43 S., R. 22 E.	January 1982
<u>No. 7 English</u>	NENW, sec. 16, T. 43 S., R. 22 E.	January 1982
- No. 31 English	NENE, sec. 21, T. 43 S., R. 22 E.	January 1982
- No. 2 English	NESW, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 36 English	NESW, sec. 22, T. 43 S., R. 22 E.	August 1983
- No. 4 English	SENW, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 5 English	SENW, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 8 English	SWNW, sec. 22, T. 43 S., R. 22 E.	January 1982
No. 37 English	SWSE, sec. 22, T. 43 S., R. 22 E.	February 1983
No. 11 English	NENW, sec. 26, T. 43 S., R. 22 E.	January 1982
No. 9 English	SWNE, sec. 16, T. 43 S., R. 22 E.	January 1982

Title 43 CFR Section 3162.3-4 requires that the lessee shall promptly plug and abandon, condition as a service well, or condition as a water well, any well on a lease that is not used or useful for the purpose of the lease. Accordingly, you are required to advise this office within 30 days of the date of this letter, by Sundry Notice of your intent to perform one of the following:

1. Condition the well to a useful function.
2. Temporarily abandon the well.
3. Permanently plug and abandon the well.

Any temporary abandonment request must include the following:

1. Justification of the reason the well should be temporarily abandoned rather than permanently plugged and abandoned. A WELL MAY NOT BE TEMPORARILY ABANDONED FOR MORE THAN 12 MONTHS.
2. A complete record of perforations in the well casing.
3. Provide for the installation of a bridge plug or a cement plug no more than 50 feet above each set of open perforations and the well bore filled with conditioned, non-corrosive fluid and shut-in at the surface. If a bridge plug is used, it must be capped with cement. The cement cap must be the greater of 35 feet or five sacks of cement if placed by dump bailer or, 25 sacks if spotted by tubing. If a cement plug is used it must be the greater of 100 feet or 25 sacks of cement.
4. Rehabilitation of the surface must be performed on all disturbed surface except for that necessary to service the well.
5. The anticipated date the operations will occur. Albert Gonzales, Petroleum Engineering Technician, MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING ANY ABANDONMENT SO THAT THE OPERATIONS CAN BE WITNESSED.

Any request for permanent plugging and abandonment must include the following:

1. The reason that the well should be permanently plugged and abandoned.
2. A plugging program to isolate and protect subsurface zones, other minerals and water zones.
3. The anticipated date the plugging will occur. Albert Gonzales, Petroleum Engineering Technician, MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING ANY ABANDONMENT SO THAT THE PLUGGING CAN BE WITNESSED.

Failure to file a Sundry Notice providing the information requested above within 30 days of the date of this letter will result in an automatic assessment of \$250 pursuant to 43 CFR 3163.3(a), and Civil Penalties pursuant to 43 CFR 3163.4-1.

You are further advised that any instructions, orders and decisions issued by the Bureau of Land Management are subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

Sincerely yours,

  
Area Manager



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Caller Service 4104  
Farmington, New Mexico 87499

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Sincerely yours,

  
Area Manager



ARCO Oil and Gas Company  
Rocky Mountain District  
707 Seventeenth Street  
Mailing address: P.O. Box 5540  
Denver, Colorado 80217  
Telephone 303 293 7031



L. B. Morse  
Operations Manager

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

April 1, 1985

Mr. John S. McKee  
Assistant Area Manager  
United States Dept. of Interior  
Office of the Secretary  
Minerals Management Service  
Drawer 600  
Farmington, New Mexico 87401

Re: Letter of March 26, 1985  
Requesting T/A, P/A, or Restoring Production  
of 12 Wells, Lease No. I-149-IND-7180  
Navajo Tribe, San Juan County, Utah

Dear Mr. McKee:

Your letter of March 26, 1985, requested Sundry Notices describing plans for the subject wells in your attached letter. This letter will summarize our plans for all of these wells including seven of the wells in which the Sundry Notices are attached. Each of the 12 specified wells is completed in the shallow Coconino sandstone or the deeper Paradox limestone, as indicated below.

Zones of Completion

<u>Coconino Sandstone</u>	<u>Paradox Limestone</u>
English #2	English #19
English #4	English #6
English #5	English #7
English #8	English #10 37
English #26	English #11
English #31	
English #36	

We plan on plugging and abandoning the Coconino wells listed above. These wells have watered out due to a strong water drive. No workover or recompletion possibilities exist.

Lease No. I-149-IND-7180


April 1, 1985

Page Two

The Paradox wells are all shut-in due to the lack of a gas market at this time. The gas from the Paradox formation is sour. El Paso Natural Gas, whose pipeline services the English lease, does not currently have the capacity in their sweetening plant to condition this gas. However, they reportedly are in the process of increasing the plant capacity and ARCO's Gas Contract Department is working to secure a share of this plant expansion, which is scheduled to occur sometime in 1986. These five wells have behind-pipe reserves in various members of the Paradox formation, and the P&A of these wells would promote economic waste and loss of reserves.

If you have any questions concerning this matter, please contact Dianne Calogero (303) 293-7085.

Very truly yours,

 FOR L.B. MORSE

L. B. Morse  
Operations Manager

LBM:DBC:sh

Attachments

ARCO Oil and Gas Company  
Rocky Mountain District  
707 Seventeenth Street  
Mailing address: P.O. Box 5540  
Denver, Colorado 80217  
Telephone 303 293 7031



L. B. Morse  
Operations Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

April 1, 1985

Mr. John S. McKee  
Assistant Area Manager  
United States Dept. of Interior  
Office of the Secretary  
Minerals Management Service  
Drawer 600  
Farmington, New Mexico 87401

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Lease No. I-149-IND-7180


April 1, 1985

Page Two

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Very truly yours,

 FOR L. B. MORSE

L. B. Morse  
Operations Manager

LBM:DBC:sh

Attachments

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

3. LEASE DESIGNATION AND SERIAL NO.

I-149-Ind-7180

3. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

English Unit

8. FARM OR LEASE NAME

English WN

9. WELL NO.

7

10. FIELD AND POOL, OR WILDCAT

Boundary Butte

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA

Sec.16-T43S-R22E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

APR 25 1985

DIVISION OF OIL  
& MINING  
(Sinclair)

1. OIL ☐ GAS ☐ SI ☒ WELL ☒ OTHER ☐

2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of

Atlantic Richfield Company

3. ADDRESS OF OPERATOR 707-17th Street,

P.O. Box 5540, Denver, CO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

330' FNL & 1650' FWL, Sec. 16

14. PERMIT NO.

15. ELEVATIONS (Show whether OP, RT, CR, etc.)

API #-None

4926, GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

PULL OR ALTER CASING ☐

FRACURE TREAT. ☐

MULTIPLE COMPLETE ☐

SHOOT OR ACIDIZE ☐

ABANDON\* ☐

REPAIR WELL ☐

CHANGE PLANS ☐

(Other) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

REPAIRING WELL ☐

FRACURE TREATMENT ☐

ALTERING CASING ☐

SHOOTING OR ACIDIZING ☐

ABANDONMENT\* ☐

(Other) Shut in-Pending Gas Market ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well was completed in the upper Paradox formation in July, 1956, making only a small amount of oil. It was not drilled through all of the Paradox zones. The well was shut-in, October, 1957.

This Paradox well is shut-in due to the lack of a gas market at this time. The gas from the Paradox formation is sour. El Paso Natural Gas, whose pipeline services the English Lease, does not currently have the capacity in their sweetening plant to condition this gas. ARCO is working towards securing a share of El Paso's expanded plant capacity, scheduled for sometime in 1986.

This well has behind-pipe reserves in various members of the Paradox formation. P&A of this well would only promote economic waste and loss of reserves.

18. I hereby certify that the foregoing is true and correct

SIGNED

Stephen Rose  
S. C. ROSE

BEST COPY

TITLE Dist. Prod. Sup't.

DATE April 19, 1985

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

COMPANY: Hondo Oil Gas Co. UT ACCOUNT # 15005 SUSPENSE DATE: 7-29-87

TELEPHONE CONTACT DOCUMENTATION

072909

CONTACT NAME: Gayle Collins

CONTACT TELEPHONE NO.: 1-505-625-8760

SUBJECT: English #7

435.00E, 16 43-037-15916 SGW

Chg to Hondo (Lulas Guco) was missed on chg of opu-  
form sent in, in March. Had copy (chg of opu sundy)  
to follow.

(Use attachments if necessary)

RESULTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(Use attachments if necessary)

CONTACTED BY: J. M. M. M.

DATE: 7-29-87


 UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

 255 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut  
84109-1203. • (801-538-5340)
Page 2 of 2

## MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

 • REIDA HENRY  
HONDO OIL & GAS COMPANY  
PO BOX 2208  
ROSWELL NM 88202
Utah Account No. N5025Report Period (Month/Year) 6 / 92Amended Report ☐

Well Name	Producing	Days	Production Volume		
API Number Entity Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)
ENGLISH WN #29					
✓ 4303720254 00525 43S 22E 22	CCSD		I-149-IND-7180		
ENGLISH WN #30			"		
✓ 4303720283 00525 43S 22E 22	CCSD		"		
ENGLISH WN #34			"		
✓ 4303730021 00525 43S 22E 16	CCSD		"		
ENGLISH WN #35			"		
✓ 4303730022 00525 43S 22E 22	CCSD		"		
ENGLISH WN #33			"		
✓ 4303730027 00525 43S 22E 21	CCSD		"		
ENGLISH #1			"		
✓ 430375911 10995 43S 22E 22	PRDX		"		
ENGLISH #6			"		
✓ 430375915 10995 43S 22E 16	PRDX		"		
ENGLISH #7			"		
✓ 430375916 10995 43S 22E 16	PRDX		"		
ENGLISH #9			"		
✓ 430375918 10995 43S 22E 16	PRDX		"		
ENGLISH #10			"		
✓ 430375919 10995 43S 22E 21	PRDX		"		
ENGLISH #11			"		
✓ 430375920 10995 43S 22E 26	PRDX		"		
ENGLISH #37			"		
✓ 4303730805 10995 43S 22E 22	PRDX		"		
TOTAL					

Comments (attach separate sheet if necessary) \_\_\_\_\_

I have reviewed this report and certify the information to be accurate and complete.

Date \_\_\_\_\_

Authorized signature \_\_\_\_\_

Telephone \_\_\_\_\_

PLEASE COMPLETE FORMS IN BLACK INK

## ENTITY IDENTIFICATION

All oil and gas wells operated by Hondo are identified under one reporting entity number. For a single entity to exist, all wells should have a common operator, common ownership, and a common producing zone. Since the oil wells produce from the Coconino Sandstone formation and the gas wells produce from the Paradox formation, two reporting entities should exist.

## RECOMMENDATION

A new reporting entity for gas wells producing from the Paradox formation should be utilized for future reporting. As a courtesy to Hondo, entity 10995 has been established for the Paradox formation, and the Division will transfer previously reported Paradox production to this entity effective March 1, 1989.

## WELLS INVOLVED

English #1	43-037-15911	43S	22E	Sec. 22	Entity 525 to 10995
English #6	43-037-15915	43S	22E	Sec. 16	Entity 525 to 10995
English #7	43-037-15916	43S	22E	Sec. 16	Entity 525 to 10995
English #9	43-037-15918	43S	22E	Sec. 16	Entity 525 to 10995
English #10	43-037-15919	43S	22E	Sec. 21	Entity 525 to 10995
English #11	43-037-15920	43S	22E	Sec. 26	Entity 525 to 10995
English #37	43-037-30805	43S	22E	Sec. 22	Entity 525 to 10995

Change made July 20, 1989, effective March 1, 1989. The only well that produced in 1989 is the English #37, all other wells have been in a shut-in status.

Brought to my attention by Ralph Aiello, changes made per Division recommendation.

Lisha Romero/Administrative Analyst



## MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88201

June 19, 1992

Utah State Tax Commission  
160 East Third South  
Salt Lake City, Utah 84134

Re: Field Number : 305  
Field Name: Boundary Butte  
San Juan County, Utah

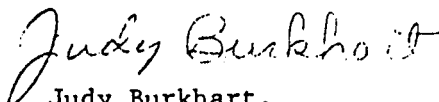
Dear Sir;

Please be advised that Mountain States Petroleum Corporation has acquired the interest of Hondo Oil & Gas Company, Post Office Box 2208, Roswell, N.M., 88202-2208, in the captioned property.

As operator, Mountain States will be filing and remitting Oil and Gas Severance Tax, Mineral Production Withholding Tax and Oil and Gas Conservation Tax for this property to the State of Utah. It is our understanding that these taxes are remitted quarterly. Hondo has filed and remitted for the 1st quarter of this year. Mountain States will begin filing and remitting with the 2nd quarter.

Please furnish this office at Post Office Box 1936, Roswell, New Mexico, 88202-1936, attention Judy Burkhart, all necessary forms, coupon books, reports and instructions that are applicable. Mountain States Petroleum Corporation's Tax I.D. number is 85-0204476. If you are in need of anything further in this matter please contact the undersigned at (505) 623-7184. Thank you.

Sincerely,



Judy Burkhart,  
Secretary

N217800643

**Hondo Oil & Gas Company**

Box 2208

Roswell, New Mexico 88202

(505) 625-8700



REC'D USTC P.B.  
JUN 25 1992

June 23, 1992

Utah State Tax Commission  
160 East 300 South  
Salt Lake City UT 84134-0410

Re: Utah Severance Tax  
Return TC-801  
Hondo Oil & Gas Company  
N5025

Gentlemen:

The Second Quarter taxes due to be paid September 1, 1992 for the English that Hondo Oil & Gas Company has been remitting will be paid by Mountain States Petroleum.

Mountain States Petroleum purchased the English lease effective February, 1992. Please write to them if you need further documentation to record this change of responsibility with your office.

Please direct any and all future correspondence regarding the English to:

Mountain States Petroleum  
PO Box 1936  
Roswell NM 88202-1936

Sincerely,

*Toni Reeves*

Toni Reeves

/drs

copy: Mountain States Petroleum

## MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88201

June 26, 1992

Utah State Tax Commission  
160 East Third South  
Salt Lake City, Utah 84134

Re: Identification Number  
Request for New Application

Gentlemen:

Please refer to Mountain States Petroleum Corporaton's letter dated June 19, 1992, and Hondo Oil & Gas Company's letter dated June 23, 1992, relative to the change in ownership of the English lease and wells located in San Juan County, Utah.

Please furnish Mountain States with an identification number or application for the same in order that we may successfully file and pay the Second Quarter taxes which will be coming due for this property.

Please direct your reply or any questions you may have concerning this matter to the undersigned at Post Office Box 1936, Roswell, New Mexico, 88202-1936 or (505) 623-7184. Thank you.

Sincerely,

*Judy Burkhart*  
Judy Burkhart,  
Secretary

Enclosures: 2  
Attachment

RECEIVED

JUL 28 1992

DIVISION OF  
OIL GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. I149IND7180
2. NAME OF OPERATOR Hondo Oil & Gas Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Box 2208, Roswell, NM 88202		7. UNIT AGREEMENT NAME English Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  330' FNL & 1650' FWL		8. FARM OR LEASE NAME English WN
14. PERMIT NO. 43-037-15916		9. WELL NO. 7
15. ELEVATIONS (Show whether OF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Boundary Butte
		11. SEC., T., R., M., OR BLK. AND SUBST OR AREA Sec 16-T43S-R22E
		12. COUNTY OR PARISH San Juan
		13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANN <input type="checkbox"/>	(Other) <u>Change of Operator</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Change of Operator from:

Hondo Oil & Gas Company  
P. O. Box 2208  
Roswell, NM 88202

TO:

Mountain States Petroleum Corporation  
213 E. Fourth Street  
Roswell, NM 88201

RECEIVED

AUG 06 1992

DIVISION OF  
OIL GAS & MINING

EFFECTIVE DATE: 2/1/92

ACTUAL FIELD OPERATIONS BY MOUNTAIN STATES PETROLEUM CORPORATION BEGAN 6/1/92

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] Mountain States Petroleum Corp.  
Signed [Signature] President 5/27/92  
TITLE Vice President DATE 5-26-92

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

## MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88201

July 31, 1992

State of Utah  
Department of Natural Resources  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Leisha Romero,  
Division of Oil, Gas and Mining

Re: Change of Operator  
Boundary Butte/English wells  
San Juan County, Utah

Dear Ms. Romero,

Pursuant to our telephone conversation this morning, please find enclosed one Sundry Notice for each well affected by the Change of Operator from Hondo Oil & Gas Company to Mountain States Petroleum Corporation.

As we discussed, after you receive these papers and assign Mountain States Petroleum Corporation an account number you will call our office and advise us of the number so that we can use it to submit our monthly production reports.

If you are in need of anything further in this matter please let me know. Thank you for all of your assistance with this transfer.

Sincerely,

*Judy Burkhart*  
Judy Burkhart,  
Secretary

Enclosures

RECEIVED

AUG 06 1992

DIVISION OF  
OIL GAS & MINING



THE  
NAVAJO  
NATION

P.O. BOX 308

WINDOW ROCK, ARIZONA 86515

(602) 871-4941

PETERSON ZAH  
PRESIDENT

MARSHALL PLUMMER  
VICE PRESIDENT

August 20, 1992

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Paul Slayton  
Mountain States Petroleum Corporation  
213 East Fourth Street  
Roswell, New Mexico 88201

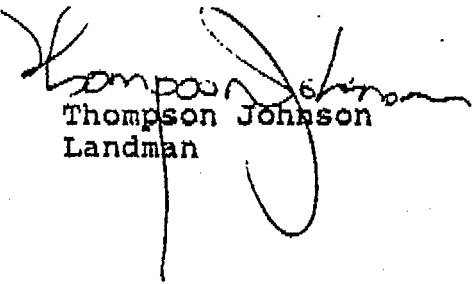
Dear Mr. Slayton:

Enclosed please find an approved copy of the Navajo Nation's Assignment of Mining Lease form for oil and gas lease number I-149-IND-7180.

If you have any questions, please do not hesitate to call our office at (602) 871-6587.

Sincerely,

MINERALS DEPARTMENT

  
Thompson Johnson  
Landman

Enclosure

THE NAVAJO NATION  
MINERALS DEPARTMENT  
DIVISION OF RESOURCES

MAY 11 1992  
Minerals Department  
Bureau of Land Management

ASSIGNMENT OF MINING LEASE  
Part I

Lease No. T-149-IND-7180

1. Date the original mining lease was approved by the Department of the Interior: \_\_\_\_\_

Dated: June 24, 1946 Approved: August 30, 1946

2. Primary Term: Ten (10) Years Royalty Rate: 12.5%

3. Lessee: Byrd-Frost, Inc.

4. Description of the land being assigned: S/2 of Section 8; S/2 of Section 15; All of Sections 16, 17, 21, 22, 23, 26, 27, 35 & 36, T-43-S, R-22-E; and All of Section 31, T-43-S, R-23-E, Salt Lake Meridian, San Juan County, Utah

5. Assignor: Hondo Oil & Gas Company

6. Assignee: Mountain States Petroleum Corporation

7. Portion of the rights/title under transfer: All of Hondo Oil & Gas Company's right, title and interest, being an undivided 50% interest.

8. Reserved overriding royalties: None

9. Previous assignees and portion of the rights/title transferred and overriding royalties: \_\_\_\_\_

(1) Byrd-Frost, Inc. to Paul B. English - an undivided 25% interest (12-03-46)

(2) Byrd-Frost, Inc. to Western Natural Gas Company - an undivided 37.5% interest (6-02-47)

(3) Paul B. English to Western Natural Gas Company - an undivided 12.5% interest (6-03-47)

(4) Western Natural Gas Company to \*Sinclair Oil & Gas Company - an undivided 50% interest (11-23-63)

\*Atlantic Richfield Company being successor in interest to Sinclair Oil & Gas Company by virtue of merger in 1969

If there were more than four (4) previous Assignees, please use continuation form(s)

The Assignee shall furnish to the lessor (The Navajo Nation, Attention: Minerals Department P.O. Box 146, Window Rock, AZ 86515), copies of all reports filed with the Minerals Management Service and the Bureau of Land Management subsequent to federal laws and regulations, when filed. The Assignee shall furnish also all oil and gas sale tickets, copies of drill stem tests, pressure tests, core analyses, seismic data and any other information required by the Minerals Department for this lease.

Mountain States Petroleum Corporation

By: *R. D. [Signature]*  
ASSIGNEE'S SIGNATURE

5-15-92

Date

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88201

October 21, 1992

RECEIVED

OCT 22 1992

DIVISION OF  
OIL GAS & MINING

State of Utah  
Natural Resources  
Oil, Gas, & Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
Attn: Ms. Vicky Corney

Re: Form DOGM 56-64-21 for Hondo Oil & Gas Co. Roswell, N M.

Dear Vicky:

Please find enclosed copies of the above referenced forms made out to Hondo Oil & Gas Co. These properties have been sold to Mountain States Petroelum Corp., and we have been making reports on said properties since June 1992. Mountain States Petroleum Corp.'s Account Number is 9500.

Please check and see if this has all been changed over to Mountain States Petro. Corp.

Thank you for your help in this matter.

Very truly yours,

  
Ruby Wickersham

RLW/ms

Enclosures



# MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88201

October 29, 1992

Utah Department of Natural Resources  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84130-1203

Attention: Lisha Romero - FAX # 801-359-3940

Re: Boundary Butte Field  
English Lease - Navajo Nation I-149-IND-7180


Dear Ms. Romero,

Pursuant to our telephone conversations this date I am faxing you a copy of the assignment of mining lease approved by the Navajo Nation.

As we discussed, all of the English wells are located on this one Indian lease and this copy should allow you to change your records to show that Mountain States Petroleum Corporation took over as operator in June of this year.

If you are in need of anything further in this matter please let me know. Thank you for all of your assistance with this transfer.

Sincerely,



Judy Burkhart,  
Secretary

Attachments: 4 pages



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

October 30, 1992

Judy Burkhart  
Mountain States Petroleum Corporation  
P. O. Box 1936  
Roswell, New Mexico 88202

Dear Ms. Burkhart:

Re: Hondo Oil & Gas Co. to Mountain States Petroleum Corporation.

In reviewing the operator change for the referenced companies, it was determined that your company is not currently registered with the Utah Department of Commerce. This letter is written to advise you of your responsibility to register your company with the state prior to conducting business within Utah. This can be accomplished by contacting:

Department of Commerce  
Division of Corporations  
160 East 300 South  
Salt Lake City, Utah 84111  
(801) 530-4849

Sincerely,

Lisha Romero  
Administrative Analyst

cc: Dept. of Commerce  
D.T. Staley  
R.J. Firth  
Operator File(s)  
Correspondence File/ldc

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1- LCH	7- LCH
2- DTS	
3- VLC	
4- RJF	
5- RWM	
6- ADA	

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

☒ Change of Operator (well sold)

☐ Designation of Agent

☐ Designation of Operator

☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 2-1-92)

TO (new operator) MOUNTAIN STATES PETRO CORP  
 (address) PO BOX 1936  
ROSWELL NM 88202  
JUDY BURKHART  
 phone (505) 623-7184  
 account no. N 9500

FROM (former operator) HONDO OIL & GAS COMPANY  
 (address) PO BOX 2208  
ROSWELL NM 88202  
REIDA HENRY  
 phone (505) 625-6743  
 account no. N 5025

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 8-6-92)*
- 2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 8-6-92) (Rec'd 10-22-92) (Rec'd 10-29-92)*
- 3 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes no) \_\_\_\_ If yes, show company file number: \_\_\_\_ *(Letter mailed 10-30-92)*
- 4 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(10-30-92)*
- 6 6. Cardex file has been updated for each well listed above. *(10-30-92)*
- 7 7. Well file labels have been updated for each well listed above. *(10-30-92)*
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(10-30-92)*
- 9 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

## ENTITY REVIEW

- See* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

## BOND VERIFICATION (Fee wells only)

- N/A* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A* 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A* 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_\_. Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

## LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

## MICROFILMING

- RWM*  
*11-2-92* 1. All attachments to this form have been microfilmed. Date: Mar 3 1992.

## FILED

- cl* 1. Copies of all attachments to this form have been filed in each well file.
- cl* 2. The original of this form and the original attachments have been filed in the Operator Change file.

## COMMENTS

921029 Btm/mcab "Handled thru Btm/N.m." (see BIA Approval?)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

2. LEASE DESIGNATION AND SERIAL NO.

I-149-IND-7180

3. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

English

9. WELL NO.

#7

10. FIELD AND POOL, OR WILDCAT

Boundary Butte

11. SEC., T., R., M., OR BLM. AND SURVEY OF AREA

Sec. 16-43S-22E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Mountain States Petroleum Corporation

3. ADDRESS OF OPERATOR

Post Office Box 1936, Roswell, N.M. 88202-1936

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface

NE/4NW/4 Sec. 16

14. PERMIT NO.

43-037-15916

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANT

(Other)

(Other) Continue to Shut-in

X

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Request permission to allow this well to remain shut in until a favorable economic situation occurs relative to the sale of gas.

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FEB 05 1993

DIVISION OF  
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*Paul Clayton*

TITLE President

DATE 2/2/93

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88201

February 2, 1993

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: Annual Status Report of Shut-in wells

Gentlemen:

Please find enclosed duplicate copies of Sundry Notices this company filed with the Bureau of Land Management relative to our Utah shut-in wells.

These copies are furnished as Annual Status Reports per Utah Admin. R. 649-8-10. If you are in need of anything further in this matter please contact the undersigned. Thank you.

Sincerely,

*Judy Burkhart*

Judy Burkhart,  
Secretary

Enclosures

RECEIVED

FEB 05 1993

DIVISION OF  
OIL GAS & MINING

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

ROUTING	
1. DJJ	
2. CDW	

Change of Operator (Well Sold)

**X - Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective:

**1/1/2008**

<b>FROM: (Old Operator):</b> N9500-Mountain States Petroleum Corp 3001 Knox St. Suite 403 Dallas, TX 75205 Phone: 1 (214) 389-9800	<b>TO: (New Operator):</b> N3495-Nacogdoches Oil & Gas, Inc PO Box 632418 Nacogdoches, TX 75963-2418 Phone: 1 (936) 560-4747
--	--

CA No.				Unit:				
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/9/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/9/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/5/2007
- Is the new operator registered in the State of Utah: Business Number: 6757345-0143
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: notified 6/10/08
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/10/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/10/2008
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: 301

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Navajo Nation

7. UNIT or CA AGREEMENT NAME:

None

1. TYPE OF WELL

OIL WELL ☒

GAS WELL ☒

OTHER

8. WELL NAME and NUMBER:

See attached

2. NAME OF OPERATOR:

NACOGDOCHES OIL & GAS, INC.

N 3495

9. API NUMBER:

See attach

3. ADDRESS OF OPERATOR:

PO BOX 632418

CITY NACOGDOCHES

STATE TX

ZIP 75963-2418

PHONE NUMBER:

(936) 560-4747

10. FIELD AND POOL, OR WILDCAT:

Boundary Butte

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2008</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER:
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

SELLER:

effective 1/1/2008

Company: Mountain States Petroleum Corp

Address: 3001 Knox ST, Suite 403

Dallas, TX 75205

Phone: (214) 389-9800

Signature:

Kir Chambers, Vice President

BIA BOND = 301

NAME (PLEASE PRINT)

Donna Finley

TITLE

Secretary/Treasurer

SIGNATURE

Donna Finley

DATE

4/23/2008

(This space for State use only)

APPROVED

6/10/2008

Earlene Russell

Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

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DIV. OF OIL, GAS & MINING

(5/2000)



# FORM 9 Attachment

API Well Number	Current Operator	New Operator	Well Name	Well Status	Well Type	Qtr/Qtr	Section	Township-Range	FNL/FSL	FEL/FWL
43-037-15911	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 1	Producing	Gas Well	NENW	22	43S-22E	660 N	1980 W
43-037-15915	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 6	Shut-In	Gas Well	SENE	16	43S-22E	2310 N	330 E
43-037-15916	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 7	Shut-In	Gas Well	NENW	16	43S-22E	330 N	1650 W
43-037-15918	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 9	Shut-In	Gas Well	SWNE	16	43S-22E	2310 N	1650 E
43-037-15919	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 10	Producing	Gas Well	SENE	21	43S-22E	1880 N	760 E
43-037-15920	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 11	Shut-In	Gas Well	NENW	26	43S-22E	560 N	1980 W
43-037-20070	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 12	Producing	Oil Well	SENE	21	43S-22E	1550 N	660 E
43-037-20104	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 13	Shut-In	Oil Well	NENE	21	43S-22E	450 N	940 E
43-037-20105	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 14	Shut-In	Oil Well	NWNW	22	43S-22E	1100 N	500 W
43-037-20148	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 16	Shut-In	Oil Well	NWNW	22	43S-22E	400 N	580 W
43-037-20150	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 15	Shut-In	Oil Well	SWSE	16	43S-22E	810 S	1350 E
43-037-20175	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 17	Shut-In	Oil Well	SWNE	21	43S-22E	1400 N	1700 E
43-037-20182	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 19	Shut-In	Oil Well	NWNE	21	43S-22E	150 N	1750 E
43-037-20185	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 20	Shut-In	Oil Well	SENE	21	43S-22E	2350 N	660 E
43-037-20187	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 21	Shut-In	Oil Well	SWSE	16	43S-22E	710 S	2580 E
43-037-20195	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 23	Shut-In	Oil Well	NWSE	16	43S-22E	1600 S	1920 E
43-037-20217	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 25	Shut-In	Oil Well	NESW	16	43S-22E	1480 S	2400 W
43-037-20235	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 27	Producing	Oil Well	SWNW	22	43S-22E	1970 N	180 W
43-037-20239	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 28	Producing	Oil Well	SWNE	21	43S-22E	2040 N	1375 E
43-037-20254	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 29	Shut-In	Oil Well	NWSW	22	43S-22E	2600 S	180 W
43-037-20283	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 30	Producing	Oil Well	NWSW	22	43S-22E	2400 S	960 W
43-037-30021	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 34	Shut-In	Oil Well	SESE	16	43S-22E	250 S	850 E
43-037-30022	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 35	Shut-In	Oil Well	NESW	22	43S-22E	2100 S	1600 W
43-037-30027	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 33	Producing	Oil Well	NENE	21	43S-22E	880 N	240 E
43-037-30805	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 37	Shut-In	Gas Well	SWSE	22	43S-22E	610 S	1940 E

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4303715916

S-16 T 435 R 22 E

UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT

Class IID Water Injection Well

Permit No. NN 297 000015

Well Name: English #7

Lease No. 14-20-0603-8823

San Juan County, Utah

Navajo Nation

Issued to:

Mountain States Petroleum Corp.

P.O. Box 1936

Roswell, New Mexico 88202-1936

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DIV. OF OIL, GAS & MINING

2/5/98

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**PART I. AUTHORIZATION TO OPERATE AND INJECT**

Pursuant to the Underground Injection Control Regulations of the U. S. Environmental Protection Agency ("EPA") codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 145, 146, 147, and 148,

Mountain States Petroleum Corp.  
P.O. Box 1936  
Roswell, New Mexico 88202-1936

is hereby authorized to operate the well named and described below as a Class II Salt Water Disposal well:

<u>WELL</u>	<u>LOCATION</u>	<u>LEASE NUMBER</u>
Boundary Butte	330' FNL 1650' FWL	14-20-0603-8823
Well English No. 7 SWD	NW 1/4 NE 1/4 NW 1/4 Section 16 T43S R22E	

Injection shall be for the purpose of disposal of produced water in the Ismay Unit of the Boundary Butte oilfield in accordance with conditions set forth herein.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, 147, and 148 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of nineteen (19) pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record. It is the responsibility of the permittee to read and understand all provisions of this permit. This permit and the authorization to inject are issued for a period of twenty (20) years unless terminated under the conditions set forth in Part III, Section B of this permit. The permit will expire upon delegation of primary enforcement responsibility for the UIC Class II Program to an appropriate agency of the Navajo Nation, unless the Navajo Nation agency has the appropriate authority and chooses to adopt and enforce this permit as a Tribal permit.

Issued this 12<sup>th</sup> day of March, 1998

This permit shall become effective February 25, 1998

Alexis Strauss  
Alexis Strauss, Acting Director  
Water Division

**A. WELL CONSTRUCTION**

1. Casing and Cementing. The construction details of the well English #7 submitted with the permit application is incorporated into this permit as APPENDIX C. and shall be binding on the permittee. The well has been cased and cemented to prevent the movement of fluids behind the casing and this casing shall be maintained throughout the operating life of the well.
2. Formation Logging and Testing. After a period of 6 months injection into the well English #7, but no longer than one year of injection, the applicant must run a Temperature Log. The log presentation will consist of an injecting profile (temperature log while injecting) and a decay log (two shut-in temperature logs at separate time intervals). The operator is required to obtain prior approval from EPA regarding the timing, procedures and witnessing of this log before it is to be run. The purpose of the log is to evaluate the integrity of the annulus between the uncemented portion of the long string casing and wellbore. Static reservoir pressure will be measured and recorded prior to injection. See attached "USEPA Region IX Temperature Log Requirements" for a more detailed description of the requirements.
3. Monitoring Devices. The operator shall install and maintain in good operating condition:
  - (a) A tap on the discharge line between the injection pump and the wellhead for the purpose of obtaining representative samples of the injection fluids;
  - (b) Two one-half (1/2) inch FIP fittings, isolated by plug or globe valves, and positioned to provide for either (1), the permanent attachment of one-half (1/2) inch MIP gauges, or (2), the attachments for equivalent "quick-disconnect" gauges at the wellhead on the injection tubing and on the tubing/casing annulus. The gauges used shall be of a design to provide (1), a full pressure range of 100 percent greater than the anticipated operating pressure, and (2), a certified deviation accuracy of five (5) percent or less;
  - (c) A flow meter with measured cumulative volumes that are certified for a deviation accuracy of five (5) percent or less throughout the range of injection rates allowed by the permit.

4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director,\* as soon as possible, of any planned physical alterations or additions to the permitted injection well. Any changes in the well construction will require prior approval of the EPA and a permit modification under the requirements of 40 CFR Part 144.39.

In addition, the permittee shall provide all records of well workovers, logging, or other subsequent test data, including required mechanical integrity testing, to EPA within sixty (60) days of completion of the activity. Appendix B. contains samples of the appropriate reporting forms. Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers or alterations and prior to resuming injection activities in accordance with Part II, Section C.1.(a) of this permit.

**B. CORRECTIVE ACTION**

No corrective action will be required on the wells within the area of review (AOR). All wells within the AOR are properly constructed or plugged and abandoned according to the provisions of 40 CFR §144.55 and 40 CFR §146.07.

**C. WELL OPERATION**

1. Mechanical Integrity.

(a) Method for Demonstrating Mechanical Integrity.

- (i) The injection well must have and maintain mechanical integrity consistent with 40 CFR §146.8. The permittee must show that there are no significant leaks in the casing, tubing and packer and that there is no significant fluid movement through vertical channels adjacent to the injection wellbore.
- (ii) The permittee will demonstrate that no significant leaks exist in Well English #7 by means of a shut-in annulus pressure test. The annulus must hold a pressure equal to the maximum allowable permitted pressure for a period of 30 minutes with no more than a 5 percent change in pressure. There must be a pressure differential of at least 300 psi between the tubing and the casing-tubing annulus throughout the test.

\*"Director", as used herein, refers to the Director, Water Division, U.S. EPA Region 9, San Francisco, CA

(iii) The permittee must fulfill the requirements listed in 40 CFR §146.8 for demonstrating the absence of fluid movement into a USDW through vertical channels adjacent to the injection wellbore. The permittee must run a temperature log as described in this permit under II.A.2. Formation Logging and Testing. The permittee has submitted partial documentation of an adequate cementing record.

(b) Prohibition Without Demonstration. Injection into Well English #7 may begin after the effective date of this permit only if:

- (i) Well English #7 has passed a mechanical integrity test in accordance with Part II Section C.1.(a) of this permit and
- (ii) the permittee has received written notice from the Director that the MIT demonstration in Well English #7 is satisfactory.

(c) Mechanical Integrity Demonstrations

- (i) A demonstration of mechanical integrity in accordance with provisions of MECHANICAL INTEGRITY TEST (MIT) PART I: REQUIREMENTS FOR INTERNAL TEST, a copy of which is contained in Appendix B. attached hereto, shall be made on a periodic time interval as provided for therein. Mechanical integrity shall also be demonstrated any time that a workover is conducted, the packer becomes unseated or the seal is broken at the wellhead assembly, the construction of the well is modified, or when a loss of mechanical integrity becomes evident during operation.
- (ii) It shall be the permittee's responsibility to arrange and conduct the mechanical integrity demonstrations. A preliminary advance notification of at least 30 days is required for major operations only. This 30 day advance notice provides EPA with sufficient time to allow for comments or required changes. Major operations include Plugging and Abandonment (P&A), conversion to producer status and most MITs. Submittal should be sent to the Navajo EPA office in Shiprock, NM. The submittal must be complete in its description of proposed procedures and pertinent well facts and can be copied from BLM sundry forms.



allow for witnessing MIT and P&A. The purpose of the second notification is for providing more accurate logistics information. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(iii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the permitted life of the well.

(d) Loss of Mechanical Integrity. If (1), the well fails to demonstrate mechanical integrity during a test, or (2), a loss of mechanical integrity becomes evident during operation, or (3), a significant change in the annulus or injection pressure occurs during normal operating conditions, the permittee shall notify the Director in accordance with Part III, Section E.10 of this permit. Furthermore, injection activities shall be terminated immediately and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

2. Injection Intervals.

Injection shall be permitted for the Ismay Formation in the subsurface interval of 4,329 to 4,419 feet. Injection perforations may be added or squeezed off only within this interval. Alteration of the injection perforations and other rework operations must be properly reported (EPA Form 7520-12) and the well must demonstrate mechanical integrity.

3. Injection Pressure Limitation. The injection pressure for the well shall not exceed the surface (wellhead) injection pressure calculated by the formula in 40 CFR § 147.3006(a):

$$P_m = 0.2d$$

where:

$P_m$  = injection pressure at the wellhead in pounds per square inch

$d$  = depth in feet to the top of the injection zone.

Injection pressure at the wellhead may be increased only if a valid step-rate test procedure is pre-approved and the step-rate test is witnessed by EPA. The results of the test will be incorporated into this permit as the maximum allowable injection pressure. This will be a minor permit modification and will not be open for further public comment.

4. Injection Volume.

The operator has proposed a maximum daily injection volume of 250 bpd for Well English #7 (average of 50 bpd). The actual volume rates may be limited by the maximum allowable pressure at the wellhead, which is to be established as required in Part II C.3. of this permit.

5. Injection Fluid Limitation.

- (a) The permittee shall not inject any hazardous wastes as defined by 40 CFR §261 at any time during the operation of the facility.
- (b) The well shall be used only for the disposal of produced saltwater in connection with primary oil recovery from producing wells owned and operated by the permittee.
- (c) Fluids to be injected other than those described in paragraph (b) above shall be limited to occasional minor amounts of well treatment fluids such as dilute acids and corrosion inhibiting fluids. Injection of any fluids other than those described in paragraph (b) above shall be reported to the Director within 30 days.

**D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS**

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table I of 40 CFR §136.3, or in Appendix III of 40 CFR §261, or, in certain circumstances, other methods that have been approved by the EPA Administrator. Monitoring shall consist of:

- (a) Analysis of the injection fluids. The analysis shall be performed:
  - (i) annually for Total Dissolved Solids, major ions, pH, specific conductivity and specific gravity
  - (ii) whenever there is a change in the source of injection fluids
- (b) Weekly monitoring and monthly recordings of injection pressure, annulus pressure, flow rate and cumulative volume.

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

- (a) the date, exact place, and the time of sampling or field measurements;
- (b) the name of the individual(s) who performed the sampling or measurements;
- (c) the exact sampling method(s) used to take samples;
- (d) the date(s) laboratory analyses were performed;
- (e) the name of the individual(s) who performed the analyses;
- (f) the types of analyses; and
- (g) the results of such analyses.

3. Recordkeeping.

- (a) The permittee shall retain records concerning:
  - (i) the nature and composition of all injected fluids until three (3) years after the plugging and abandonment has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix A,
  - (ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit, for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.
- (b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a)(i) and (a)(ii) unless it delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The permittee shall maintain copies (or originals) of all pertinent monthly observation records (Part II, Section D.1 of this permit) available for inspection at the lease facility.

4. Reporting of Results. The permittee shall submit an Annual Report to the Director summarizing the results of the monitoring required by Part II, Sections D.1-2. of this permit. Copies of all monthly records on flow rates, volumes, pressures, and injected fluid, and any

major change in the characteristics or sources of injected fluid shall be included in the Annual Report. The first Annual Report shall cover the period from the effective date of the permit through December 31, 1998 and shall be submitted by January 31, 1999. Subsequently, the Annual Report shall cover the period of January 1 through December 31, and shall be submitted by January 31 of the following year. Appendix B contains Form 7520-11, which may be copied and used to submit the annual summary of monitoring.

**E. PLUGGING AND ABANDONMENT**

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before further conversion, workover, or abandonment of the well. The Director may require that the plugging and abandonment be witnessed by an EPA representative.
2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan in Appendix A. The EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may ask the permittee to estimate and to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according to the plan.
3. Cessation of Injection Activities. After a cessation of injection operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging & Abandonment Plan, unless it:
  - (a) has provided notice to the Director;
  - (b) has demonstrated that the well will be used in the future, and
  - (c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.
4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the

plugging operation and the report shall consist of either:  
(1) a statement that the well was plugged in accordance with the plan, or (2) where actual plugging differed from the plan, a statement specifying the different procedures followed.

#### **F. FINANCIAL RESPONSIBILITY**

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the injection well as provided in the plugging and abandonment plan. The operator has satisfied these requirements.
  - a. by means of an irrevocable letter of credit and standby trust fund.
  - b) The permittee may, upon its own initiative and upon written request to EPA, change the method of demonstrating financial responsibility. Any such change must be approved by the Director.
2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved under (b) or ~~(c)~~ above, the permittee must submit an instrument of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:
  - (a) the institution issuing the bond or financial instrument files for bankruptcy; or
  - (b) the authority of the trustee institution to act as trustee or the authority of the institution issuing the financial instrument is suspended or revoked.

### **PART III. GENERAL PERMIT CONDITIONS**

#### **A. EFFECT OF PERMIT**

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR §142 or otherwise adversely affect the health of persons. Any underground

injection activity not authorized in the permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

**B. PERMIT ACTIONS**

1. Modification, Reissuance, or Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR Sections 124.5, 144.12, 144.39, and 144.40. The permit is also subject to minor modifications for cause as specified in 40 CFR §144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.
2. Transfers. This permit may only be transferred after notice is provided to the Director and the permittee complies with the requirements of 40 CFR §144.38. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

**C. SEVERABILITY**

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit shall not be affected.

**D. CONFIDENTIALITY**

In accordance with 40 CFR Part 2 and 40 CFR §144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time

of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee,
- Information which deals with the existence, absence, or level of contaminants in drinking water.

#### **E. GENERAL DUTIES AND REQUIREMENTS**

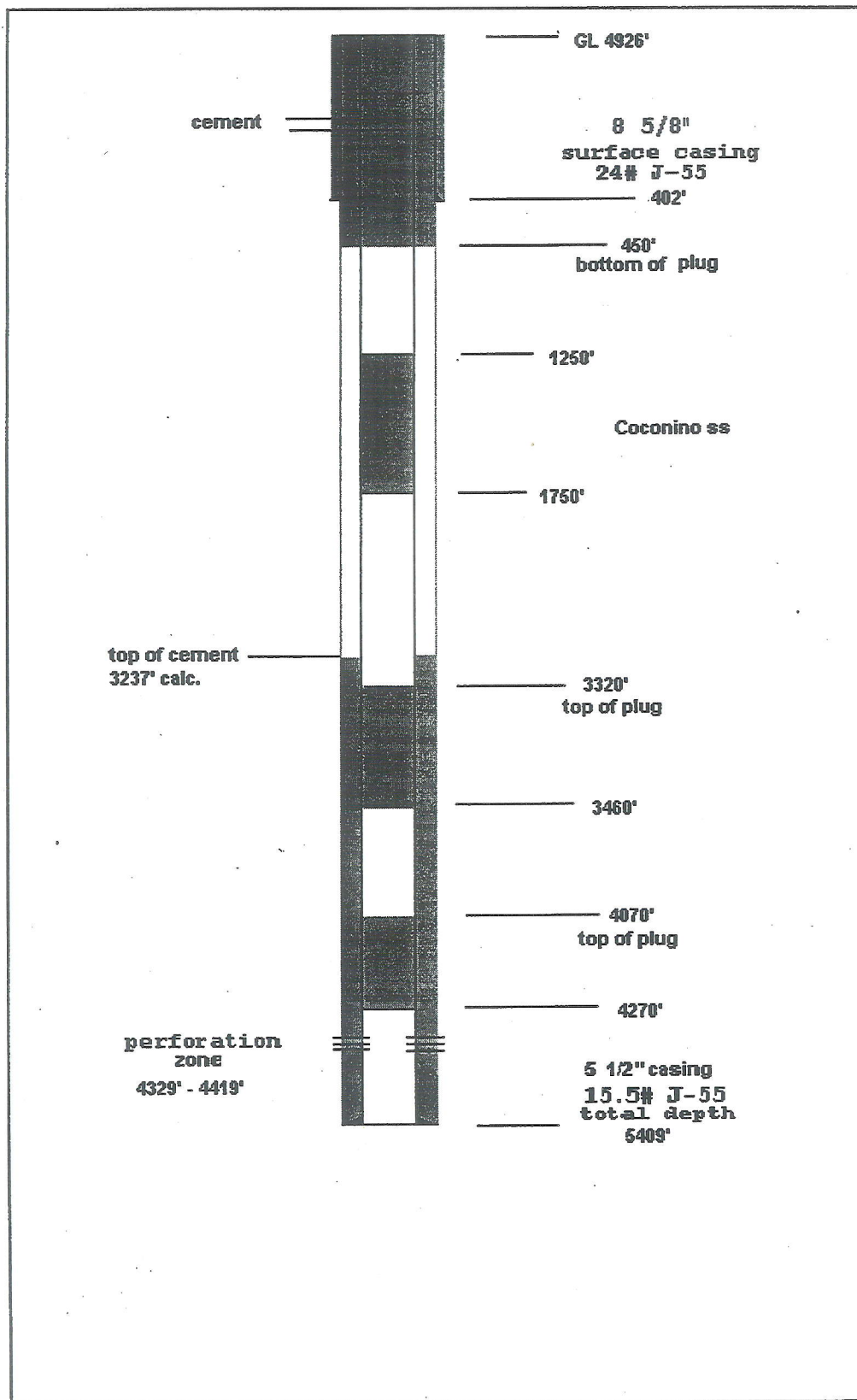
1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such noncompliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).
2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.
3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense, for a permittee in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when

necessary to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.
7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
  - (a) enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;
  - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
  - (d) sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.
8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.
9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified by a responsible corporate officer or duly authorized representative according to 40 CFR §144.32.
10. Reporting of Noncompliance.
  - (a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.



- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Twenty-four Hour Reporting.
- (i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning the EPA project officer. The following information shall be included in the verbal report:
    - (A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.
    - (B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.
  - (ii) A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- (d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part II, Section D.1 of this permit.
- (e) Other Information. Where the permittee becomes aware that it failed to submit all relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such facts or info within two (2) weeks of the time such information becomes known.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

## PLUGGING AND ABANDONMENT PLAN

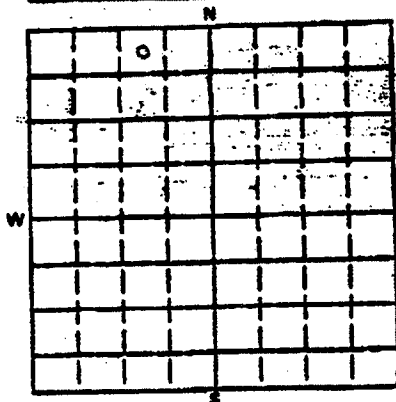
NAME AND ADDRESS OF FACILITY

Boundary Butte Field- Battery #3

NAME AND ADDRESS OF OWNER/OPERATOR

Mountain States Petroleum Corp.  
P.O. Box 1936, Roswell, NM 88202-1936

PERMIT NUMBER

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT - 640 ACRES

STATE

COUNTY

UT

San Juan

SURFACE LOCATION DESCRIPTION

1/4 of NW 1/4 of NE 1/4 of NW 1/4 of Section 16 Township 43S Range 22E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES (IF QUARTER SECTION AND DRILLING UNIT)

Surface  
Location 330. ft. from (N/S) N Line of quarter section  
and 1650 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION

- ☒ Individual Permit  
☐ Area Permit  
☐ Rule

Number of Wells \_\_\_\_\_

WELL ACTIVITY

- ☐ CLASS I  
☐ CLASS II  
☐ In Situ Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage  
☐ CLASS III

Lease Name Boundary Butte

Well Number #7

## CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8 5/8	24.7		402'	12 1/2"
5 1/2	15.5		4940'	7 7/8"

## METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☐ The Balance Method  
☐ The Dump Barrel Method  
☒ The Two-Plug Method  
☐ Other

## PLUGGING PROCEDURES

Set CIBP @ 4270". Circ. hole w/9.2 ppg mud. Spot 25 sxs Class "H" cement on top of CIBP (4070'-4270').

Perf 4 shots @ 3460'. Establish inj rate. Set retainer @ 300'.

Pump 200 sxs class "H" cement (3320-3460'). Perf 4 shots @ 300'.

Establish circ. Pumped 105 sxs class "H" cement. Circ cement to surface. Cement plug inside & outside of 5 1/2" casing (0-300').

Cut off casing. Weld on 1/2" plate & install P&A marker.

Restore & rehabilitate location.

## Estimated Cost to Plug Wells

\$20,000 if we hire all work done, \$10,000 if we do part of the work.

## CERTIFICATION

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)*

NAME AND OFFICIAL TITLE (Please type or print)

Paul Slatyon, President

SIGNATURE

DATE SIGNED

7-29-97

APPENDIX B. REPORTING FORMS AND INSTRUCTIONS

- 1.EPA Form 7520 -7:APPLICATION TO TRANSFER PERMIT
- 2.EPA Form 7520-10:WELL COMPLETION REPORT
- 3.EPA Form 7520-11:ANNUAL WELL MONITORING REPORT
- 4.EPA Form 7520-12:WELL REWORK RECORD
- 5.EPA Form 7520-13:PLUGGING RECORD
- 6.MECHANICAL INTEGRITY TEST (MIT) PART I: REQUIREMENTS FOR  
INTERNAL TEST
- 7.EPA REGION IX TEMPERATURE LOG REQUIREMENTS



United States Environmental Protection Agency  
Washington, DC 20460

## Application To Transfer Permit

OMB No. 2040-0042  
Form Approved. Expires 6-30-98

Name and Address of Existing Permittee

Name and Address of Surface Owner

Locate Well and Outline Unit on  
Section Plat- 640 Acres

N															
S															
W												E			

State

County

Permit Number

Surface Location Description

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ft. from (N/S) Line of quarter section  
and ft. from (E/W) Line of quarter section.

Well Activity

Well Status

Type of Permit

Class I

Operating

Individual

Class II

Modification/Conversion

Area

Brine Disposal

Proposed

Number of Wells

Enhanced Recovery

Hydrocarbon Storage

Class III

Other

Lease Number

Well Number

Name(s) and Address(es) of New Owners(s)

Name and Address of New Operator

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed



# COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES

N									
S									
W									E

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface  
Location ft. from (N/S) Line of quarter section

and ft. from (E/W) Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual  
☐ Area

Estimated Fracture Pressure  
of Injection Zone

Number of Wells

Anticipated Daily Injection Volume (Bbls)

Injection Interval

Average

Maximum

Feet

to Feet

Anticipated Daily Injection Pressure (PSI)

Depth to Bottom of Lowermost Freshwater Formation  
(Feet)

Average

Maximum

Type of Injection Fluid (Check the appropriate block(s))

- ☐ Salt Water ☐ Brackish Water ☐ Fresh Water  
☐ Liquid Hydrocarbon ☐ Other

Lessee Name

Well Number

Name of Injection Zone

Date Drilling Began

Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

## CASING AND TUBING

## CEMENT

## HOLE

OD Size

Wt/Pt — Grade — New or Used

Depth

Secks

Clogs

Depth

Bit Diameter

## INJECTION ZONE STIMULATION

## WIRE LINE LOGS, LIST EACH TYPE

Interval Treated

Materials and Amount Used

Log Types

Logged Intervals

Complete Attachments A — E listed on the reverse.

## CERTIFICATION

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).*

NAME AND OFFICIAL TITLE (Please type or print)

DATE SIGNED



## ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

**LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES**

STATE

**COUNTY**

**PERMIT NUMBER**

### SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

## Surface

Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/M) \_\_\_\_\_ Line of quarter section

## WELL ACTIVITY

**TYPE OF PERMIT**☐ **Brine Disposal**☐ Individual☐ Enhanced Recovery

☐ Area

☐ Hydrocarbon Storage

Number of Wells \_\_\_\_\_

**Lessee Name**

Well Number

## INJECTION PRESSURE

**TOTAL VOLUME INJECTED**

**TUBING — CASING ANNULUS PRESSURE  
(OPTIONAL MONITORING)**

[illegible]

## CERTIFICATION

***I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).***

NAME AND OFFICIAL TITLE (Please type or print)

**SIGNATURE**

**DATE SIGNED**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

## WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

<b>LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES</b>		STATE _____	COUNTY _____	PERMIT NUMBER _____
<b>SURFACE LOCATION DESCRIPTION</b> _____ 1/4 of _____ 1/4 of _____ 1/4 of _____ 1/4 of Section _____ Township _____ Range _____				
<b>LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT</b>				
Surface Location _____ ft. from (N/S) _____ Line of quarter section and _____ ft. from (E/W) _____ Line of quarter section				
<b>WELL ACTIVITY</b> <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage  Lease Name _____		<b>Total Depth Before Rework</b> <hr/> <b>Total Depth After Rework</b> <hr/> <b>Date Rework Commenced</b> <hr/> <b>Date Rework Completed</b> <hr/>		<b>TYPE OF PERMIT</b> <input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____  Well Number _____

**WELL CASING RECORD — BEFORE REWORK**

[illegible]

**WELL CASING RECORD — AFTER REWORK** *(Indicate Additions and Changes Only)*

[illegible]

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS. LIST EACH TYPE	
	Log Types	Logged Intervals

## CERTIFICATION

***I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).***

NAME AND OFFICIAL TITLE <i>(Please type or print)</i>	SIGNATURE	DATE SIGNED
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## PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF

1/4 OF

1/4 SECTION

TOWNSHIP

RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

TYPE OF AUTHORIZATION

- ☐
- Individual Permit
- 
- ☐
- Area Permit
- 
- ☐
- Rule

Number of Wells \_\_\_\_\_

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

## CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

- WELL ACTIVITY
- ☐ CLASS I  
☐ CLASS II  
☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage  
☐ CLASS III
- METHOD OF EMPLACEMENT OF CEMENT PLUGS
- ☐ The Balance Method  
☐ The Dump Bailer Method  
☐ The Two-Plug Method  
☐ Other

## CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Seals of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

## LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

## CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

## **PART I REQUIREMENTS FOR INTERMITTENT TEST**

The U. S. Environmental Protection Agency (EPA) Region 9 requirements described below are effective as of May 1, 1992. For further reference, consult 40 CFR §146.8(b). Part I MIT may be demonstrated by one of two methods:

### **METHOD A**

- 1) An annular pressure demonstration is performed at the system's maximum water injection pressure (pressure must be at least 300 psig).
- 2) The system's wells are tested at least once every five years or whenever packer reseating is needed. A test ensuing from packer reseating will be regarded as an official MIT demonstration.
- 3) Casing annuli and injections are monitored monthly and the results are included in the annual report to the director.

### **METHOD B**

- 1) Test pressure is to be 1000 psig (it is not necessary to test to maximum water injection pressure).
- 2) Water injection pressure tests are conducted at least once every three years or whenever packer reseating is needed (see #2, Method A).
- 3) Casing annuli and injection pressure are monitored weekly and the results are included in the annual report to the director.

In applying either Method A or Method B, the operator must adhere to the following EPA specifications:

- All tests must last at least 30 minutes, during which time the pressure should not increase or decrease by more than 5%.
- A minimum differential pressure of 300 psig between tubing and tubing-casing annulus is to be maintained throughout the MIT.
- The EPA will consider alternative test parameters and frequencies when requested in writing. Requirements might be less stringent, for example, where there are no Underground Sources of Drinking Water (USDWs).
- The 30 days minimum notification period specified in federal regulations may be shortened by the EPA Regional Administrator. MIT information will be accepted as valid only if EPA has been given at least 14 days notice to make arrangements to witness the MIT.
- If a well fails the MIT, the well is to be shut in immediately and steps for remediation taken as soon as possible. The operator will still be bound to report any noncompliance as required in 40 CFR §144.28(b).
- Remediation may consist of squeeze cementing holes in the casing, running a liner inside the casing, or setting tandem packers to isolate a hole in the casing when it is not practical to squeeze the hole and the hole poses no danger to any USDWs. These and other alternatives will be considered on a case-by-case basis.
- If mechanical integrity is not achieved within the specified time period, the EPA may undertake an enforcement action. Time extensions to achieve compliance are permissible, but they must be justified and requested in writing.

## **U.S.E.P.A. REGION IX TEMPERATURE LOG REQUIREMENTS**

A Temperature Log must satisfy the following criteria to be considered a valid MIT as specified by 40 CFR §146.8(c)(1). Variances to these requirements are expected for certain circumstances, but they must be approved prior to running the log.

- (1) It is preferable that the logging truck be equipped with an analog panel as the processing device (digital panels and slick line units are acceptable also).
- (2) The heading on the log must be complete and include all the pertinent information, such as correct well name, location, elevations, etc.
- (3) The total shut-in times must be clearly shown in the heading. Minimum shut-in time for active injectors is 12 hours for running the initial external MIT evaluation log. For evaluating remedial operations, the well must have been shut-in for a minimum of 12 hours prior to running the first log, followed by a second log, a minimum of 8 hours later.
- (4) The logging speed must be kept between 20 and 50 ft. per minute (30 ft/min optimum). The temperature sensor should be located as close to the bottom of the tool string as possible (logging downhole).
- (5) The depth scale of the log must be 2 in. or 1 in. per 100 ft. The horizontal temperature scale must be at least one, but no more than two Fahrenheit degrees per inch spacing.
- (6) The right hand tracks must contain the "absolute" temperature and the "differential" temperature curves.
- (7) The left hand tracks must contain:
  - a) a collar locator log,
  - b) a lithology log:
    - 1) an historic Gamma Ray that is "readable", i.e. one that demonstrates lithologic changes without either excessive activity by the needle or severely dampened responses; and/or
    - 2) a copy of an original SP curve from either the subject well or from a representative or nearby well.
  - c) A clear identification on the log showing the base of the lowermost Underground Source of Drinking Water (USDW). A USDW is basically a formation that contains less than 10,000 ppm Total Dissolved Solids (TDS) and is further defined in 40 CFR § 144.3.

APPENDIX C. WELL SCHEMATIC - Well English #7

